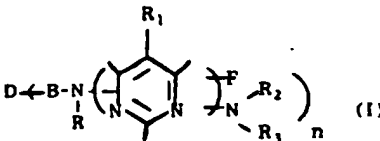
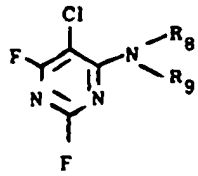
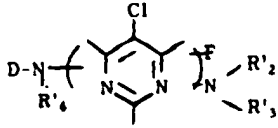
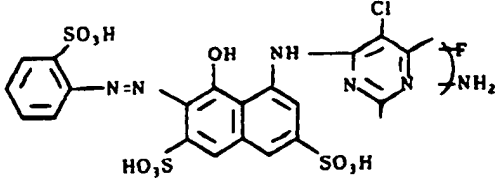


85-099801/17 BAYER AG 04.10.83-DE-335956 (18.04.85) C07d-239742 C09b-62720 D06p-01/38	A60E23 F06	FARB 04.10.83 *DE 3335.956-A	At(8-E3, 12-S5N, 12-S5P) E(7-D12, 21-D2, 25) F(3-F2, 3-F3, 3-F6, 3-F10, 3-F16)	1 1 5
New reactive dyes contg. chloro-fluoro-pyrimidinyl gp. - for dyeing polyamide, polyurethane and cellulose				
C85-043136	Reactive dyes of formula (I) are new:			
<div style="text-align: center;">  </div>				
<p>           D = organic dye residue;            n = 1-4;            B = direct bond or bridging gp. to a C atom in an aromatic carboxylic ring or to a C or N atom in a heterocyclic aromatic ring of D;            R = H or opt. substd. 1-4C alkyl;            R<sub>1</sub> = H, halo, opt. halo-substd. 1-4C alkyl or 2-4C alkenyl, NO<sub>2</sub>, CN, SO<sub>3</sub>H, opt. N-substd. carbamoyl or sulpha-moyl or sulphonate ester;         </p>				
<p>           R<sub>2</sub> = H, alkyl (opt. substd. by OH, alkoxy, CN, COOH, halo or CH<sub>2</sub>CONH), cycloalkyl, aryl or opt. substd. hetero-cyclyl;            R<sub>3</sub> = H, alkyl (opt. substd. as R<sub>2</sub>), or R<sub>2</sub> and R<sub>3</sub> together with alkylene, opt. interrupted by O, S, NH or NR.            Also new are intermediates of formula (II)         </p>				
<div style="text-align: center;">  </div>				
<p>           R<sub>8</sub> = H or 1-4C alkyl, opt. substd. by MeO, OH, COOH or SO<sub>3</sub>H; and            R<sub>9</sub> = H, 1-4C alkyl (opt. substd. as R<sub>8</sub>), phenyl (opt. substd. by Me, Et, OMe, OEt, Cl, COOH or SO<sub>3</sub>H) or naphthyl substd. by SO<sub>3</sub>H.         </p>				
<p> <u>USE</u>            (I) are useful for dyeing or printing OH- or N-contg.            DE3335956-A*         </p>				

fibres, e.g. wool, silk, synthetic polyamide or polyurethane or natural or regenerated cellulose.	
PREFERRED DYES	
	
$D' = \text{sulpho- and/or COOH-contg. residue of mono- or poly-azo, metal complex, anthraquinone, phthalocyanine, formazan, azomethine, nitroaryl, phenazine or stilbene type dyes};$	
$R'_4 = \text{H or Me};$ $R'_2 = \text{H; and}$ $R'_3 = \text{H; 2-, 3- or 4-sulphophenyl or disulphophenyl.}$	
CLAIMED PREPARATION	
2,4,5-Trifluoro-5- $R_1$ -pyrimidine (III) is reacted, in any suitable sequence, with $D-B-N(R)H$ (IV) and $HNR_2R_3$ , opt. with isolation of intermediates.	
In a modification, (IV) is replaced by a dye precursor, or e.g. an azo coupler, then this converted to (I) after condensation.	

STARTING MATERIALS	
(III; $R_1 = \text{Cl}$ ) is reacted with $HNR_2R_3$ , pref. in an aq. system at pH 6-7, to give (II).	
EXAMPLE	
65.5 g of 2-(2-sulphophenylazo)-1-hydroxy-8-(2,4-difluoro-5-chloropyrimidin-6-yl)amino-naphthalene-3,6-disulphonic acid (see Example 18 of DE1644171) was dissolved in 600 ml water. 25% $\text{NH}_3$ was added to pH 8.9 and the mixt. reacted at 50°C (maintaining the pH) until t.l.c. showed reaction was complete.	
HCL was then added to pH 6.5, the prod. salted out, filtered off, dried and ground to give dye (Ia) which was freely soluble in water and dyed cotton red.	
	
(71pp1251WADwgNo.0/0).	
DE3335956-A	